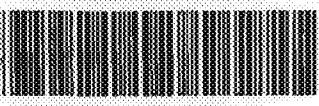


Search Notes 				Application/Control No.	Applicant(s)/Patent under Reexamination	
				10/663,077	FUNADA ET AL.	
				Examiner	Art Unit	
				Martin J. Angebrannndt	1756	
SEARCHED				SEARCH NOTES (INCLUDING SEARCH STRATEGY)		
Class	Subclass	Date	Examiner		DATE	EXMR
				<i>Eur</i>	<i>3/21/00</i>	<i>b</i>
				<i>East</i>	<i>10/24/00</i>	<i>5</i>
				<i>Gal</i>	<i>2/27/00</i>	<i>w</i>
INTERFERENCE SEARCHED						
Class	Subclass	Date	Examiner			

Index of Claims				Application/Control No.	Applicant(s)/Patent under Reexamination																
				10/663,077	FUNADA ET AL.																
				Examiner	Art Unit																
				Martin J. Angebranndt	1756																
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CONSTITUTION: The hologram transfer sheet for reproducing and transferring the relief hologram image onto a base material film by the surface state of parting the sheet from the stamper.

PRODUCTION: In the cost of the hologram since the sheet can be irradiated with UV rays to transfer foil or seal, and is excellent in productivity and can suppress the sheet into pressurized contact with a stamper, can be easily made bringing the sheet on the surface, allows the easy reproduction of a hologram by sticking on the surface.

PURPOSE: To obtain the hologram transfer sheet which is free from sheeting the hologram transfer sheet for reproducing and transferring the relief hologram image onto a base material film by the surface state of parting the sheet from the stamper.

ABSTRACT:

US-CL-CURRENT: 359/12

INT-CL (IPC): G03H001/20

APPL-DATE: August 21, 1991

APPL-NO: JP03209403

NAME DAINTIPPON INK & CHEM INC

ASSIGNEE- INFORMATION:

NAME SAKAGUCHI, NORIHISA

INVENTOR- INFORMATION:

PUBN-DATE: February 26, 1993

TITLE: HOLOGRAM TRANSFER SHEET AND METHOD FOR
REPRODUCING HOLOGRAM BY USING THIS SHEET

DOCUMENT-IDENTIFIER: JP 05046063 A

PAT-NO: JPA05046063A

hologram stamper is constituted by providing a hologram forming resin layer on one surface of the base material film. This resin layer consists of a resin compound, contg. (1) a multifunctional vinyl or vinylidene compd. which can form a photopolymer by addition polymer, or at least one piece, (2) an org. polymer binder and (3) a photopolymer. Initiator activated by active rays.

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Duplication of the hologram comprises heating and pressuring the light. One additional polymerization initiator activated by an active ray of at least polyfunctional vinyl or vinylidene cpd. which forms a photopolymer by surface of the base film comprises a resin composite including (1) formed on one surface of hologram stamp. A hologram forming resin layer by a relief hologram image is duplicated and transferred onto a base film by a relief hologram is duplicated and transferred onto a base film.

BASIC-ABSTRACT:

ABSTRACT-PUB-NO: JP 05046063A

INT-CL (IPC): G03H001/20

August 21, 1991

N/A

JP 05046063A

APPL-NO

APPL-DESCRIPTOR

APPLICATION-DATA:

APP-DATE

JP 05046063 A

005 G03H 001/20

February 26, 1993

N/A

PUB-NO

PUB-DATE

PATENT-FAMILY:

LANGUAGE

MAIN-IPC

PATENT-ASSIGNEE: DAINIPPON INK & CHEM KK [DINI]

PRIORITY-DATA: 1991JP-0209403 (August 21, 1991)

active light

vinylidene cpd., organic polymer binder and photopolymerization initiator activated by

polyfunctional

has hologram forming resin layer containing hologram transferring sheet for hologram

duplication -

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DERWENT-MERK: 199313

DERWENT-ACC-NO: 1993-105213

DERWENT-ACC-NO:

hologram transferring sheet and hologram original plate having an interference fringe of the hologram corresp. to the wave surface of the light from the object, on the surface, for transferring and duplicating the concave and convex image onto the hologram forming resin layer, and applying a UV beam onto the hologram transferring sheet to stabilize the transferred hologram image. user/ADVANTAGE - The hologram may be easily copied by closely contacting the hologram transferring sheet with the stamping contact printing the hologram forming resin layer, and applying a UV beam onto the hologram forming resin layer, and applying a UV beam onto the hologram transferring sheet to stabilize the transferred hologram image. chosen-DRAWING: Dwg.0/0 title-TERMS: Hologram TRANSFER SHEET Hologram DUPLICATE Hologram FORMING RESIN LAYER CONTAIN POLYFUNCTIONAL POLYVINYLIDENE COMPOUND ORGANIC POLYMER BIND PHOTOPOLYMERISE INITIATE ACTIVE ACITIVE LIGHT RAY DRAWN-CLASS: A89 G06 P84 V07 CPI-CODES: A08-C01; A08-C07; A11-C02B; A11-C04C; G06-D; G06-E; EPI-CODES: V07-F02C; V07-M; POLYMER-MULTIPUNCT-CODES-AND-KEV-SERIALS: KEY SERIALS: 0224 0231 2016 2020 2194 2198 2285 2300 2479 2493 2496 2851 Multipunch Codes: 014 04- 231 341 353 359 444 466 468 473 48- 649 SECONDARY-ACC-NO: CPI Secondary Accession Numbers: CL993-047018 Non-CPI Secondary Accession Numbers: NI993-079529

(54)【发明的名称】本口服钙软胶囊及其制备方法和应用方法

(19)日本特許庁 (JP)	(12)公開特許公報 (A)	(11)特許出願公開番号
(43)公開日 平成5年(1993)2月26日	(41)出願人 大日本カーボ化學工業株式会社	(21)出願番号 特願平3-209403
(22)出願日 平成3年(1991)8月21日	東京都板橋区坂下3丁目35番58号	(22)出願日 平成3年(1991)8月21日
(72)発明者 岩口 錠久	大日本カーボ化學工業株式会社	(71)出願人 000002886
(74)代理人 新垣士 高嶋 駿利	埼玉県桶川市若宮1-8-11-401	(74)代理人 新垣士 高嶋 駿利

審査請求 未請求 請求項の数(全 5 頁)

(51)Inventor	識別記号	応用整理番号	F I	技術表示欄
				G O 3 H 1/20 8106-2K
(43)公開日 平成5年(1993)2月26日	(11)特許出願公開番号	(12)公開特許公報 (A)	(19)日本特許庁 (JP)	

特開平5-46063

【摘要】本发明的本口服钙软胶囊及其制备方法和应用方法。
 (1)本发明的本口服钙软胶囊，其特征在于：所述的本口服钙软胶囊含有活性成分、填充剂、增塑剂、稳定剂、防腐剂、润滑剂、崩解剂、以及本发明的本口服钙软胶囊的形状。
 (2)本发明的本口服钙软胶囊，其特征在于：所述的本口服钙软胶囊含有活性成分、填充剂、增塑剂、稳定剂、防腐剂、润滑剂、崩解剂、以及本发明的本口服钙软胶囊的形状。
 (3)本发明的本口服钙软胶囊，其特征在于：所述的本口服钙软胶囊含有活性成分、增塑剂、稳定剂、防腐剂、润滑剂、崩解剂、以及本发明的本口服钙软胶囊的形状。
 (4)本发明的本口服钙软胶囊，其特征在于：所述的本口服钙软胶囊含有活性成分、增塑剂、稳定剂、防腐剂、润滑剂、崩解剂、以及本发明的本口服钙软胶囊的形状。
 (5)本发明的本口服钙软胶囊，其特征在于：所述的本口服钙软胶囊含有活性成分、增塑剂、稳定剂、防腐剂、润滑剂、崩解剂、以及本发明的本口服钙软胶囊的形状。

- 【請求項1】 製面1より一7本口より5本口より4本口より3本口より2本口より1本口よりの範囲で、④耐溶剂性の優れた樹脂を含む。⑤最終被覆樹脂の分子量を2000以上とする。
- 【0006】 本請求の本口より5本口より4本口より3本口より2本口より1本口よりの範囲で、是等の分子量を有する高分子化合物は、主にアクリル酸系樹脂である。即ち、エチルアクリレート、エチルアクリレートの共重合物、アクリル酸メチル、アクリル酸エチル、アクリル酸プロピル、アクリル酸ブチル、アクリル酸ヘキサノイル、アクリル酸オクタノイル、アクリル酸デシル、アクリル酸ヘキサノイルアクリル酸、アクリル酸ヘキサノイルアクリル酸の共重合物等である。
- 【0007】 制限されず、工具又は加工用の本口より5本口より4本口より3本口より2本口より1本口よりの範囲で、樹脂の分子量が2000以上である。
- 【0008】一方、被膜の紫外線硬化型樹脂を使用する場合、樹脂の分子量は2000以上である。
- 【0009】 1本口より5本口より4本口より3本口より2本口より1本口よりの範囲で、工具又は加工用の本口より5本口より4本口より3本口より2本口より1本口よりの範囲で、樹脂の分子量は2000以上である。
- 【0010】 1本口より5本口より4本口より3本口より2本口より1本口よりの範囲で、樹脂の分子量は2000以上である。
- 【0011】 1本口より5本口より4本口より3本口より2本口より1本口よりの範囲で、樹脂の分子量は2000以上である。
- 【0012】 既に、本発明は上記課題を解決するため、
- 【請求項2】 請求項1記載の本口より5本口より4本口より3本口より2本口より1本口よりの範囲で、
(1) 活性光緒化剤を含有する光重合開始剤
(2) 有機重合体結合剤及び
(3) 活性光緒化剤を含有する光重合開始剤
- を含む有する樹脂組成物が形成されることを特徴とする本口よりの範囲で、
(3) 活性光緒化剤を含有する光重合開始剤
- 【請求項2】 請求項1記載の本口より5本口より4本口より3本口より2本口より1本口よりの範囲で、
(1) 少なくとも1個の付加重合基と2つ以上の重合基含有する
化合物が本口より5本口より4本口より3本口より2本口より1本口よりの範囲で、
(2) 多数回の加熱・冷却交換を繰り返すたびに、その分子量が2000以上である。
更に注、本口より5本口より4本口より3本口より2本口より1本口よりの範囲で、
(3) 活性光緒化剤を含有する光重合開始剤
- を含む有する樹脂組成物が形成されることを特徴とする本口よりの範囲で、
(3) 活性光緒化剤を含有する光重合開始剤
- 【0013】 本発明の本口より5本口より4本口より3本口より2本口より1本口よりの範囲で、
(1) 塩基性元素、(2) 効率的活性化剤を含有する樹脂を含有する樹脂組成物が形成される。
更に、(3) 活性光緒化剤を含有する光重合開始剤
- 【0014】 通常、工具又は加工用の本口より5本口より4本口より3本口より2本口より1本口よりの範囲で、
(1) 少なくとも1個の付加重合基と2つ以上の重合基含有する
化合物が本口より5本口より4本口より3本口より2本口より1本口よりの範囲で、
(2) 多数回の加熱・冷却交換を繰り返すたびに、その分子量が2000以上である。
更に注、本口より5本口より4本口より3本口より2本口より1本口よりの範囲で、
(3) 活性光緒化剤を含有する光重合開始剤
- を含む有する樹脂組成物が形成されることを特徴とする本口よりの範囲で、
(3) 活性光緒化剤を含有する光重合開始剤
- 【0015】 本発明の本口より5本口より4本口より3本口より2本口より1本口よりの範囲で、
(1) 塩基性元素、(2) 効率的活性化剤を含有する樹脂を含有する樹脂組成物が形成される。

50. 为适应企业对人才的需求，某公司计划在2023年招聘100人。
51. 2023年，某公司计划招聘100人。其中，本科毕业生占60%，专科生占30%，其他学历占10%。
52. 2023年，某公司计划招聘100人。其中，本科毕业生占60%，专科生占30%，其他学历占10%。
53. 2023年，某公司计划招聘100人。其中，本科毕业生占60%，专科生占30%，其他学历占10%。
54. 2023年，某公司计划招聘100人。其中，本科毕业生占60%，专科生占30%，其他学历占10%。
55. 2023年，某公司计划招聘100人。其中，本科毕业生占60%，专科生占30%，其他学历占10%。
56. 2023年，某公司计划招聘100人。其中，本科毕业生占60%，专科生占30%，其他学历占10%。
57. 2023年，某公司计划招聘100人。其中，本科毕业生占60%，专科生占30%，其他学历占10%。
58. 2023年，某公司计划招聘100人。其中，本科毕业生占60%，专科生占30%，其他学历占10%。
59. 2023年，某公司计划招聘100人。其中，本科毕业生占60%，专科生占30%，其他学历占10%。
60. 2023年，某公司计划招聘100人。其中，本科毕业生占60%，专科生占30%，其他学历占10%。

【0041】乙の圖標記録簿を逐一検査、捺印工次手帳
77111Aの誤認性を保持せしむれども、特定費用(色彩料等
が本部口座と公算課金支拂いの2件)、その請求
は一ヶ月以内に本部に提出せしめることを要す。

【0039】上口の本口から人形成形器を置くと、手口で人形成形器を握り、工具を加えて工具を握る。工具を加えて工具を握る。工具を加えて工具を握る。工具を加えて工具を握る。工具を加えて工具を握る。

【0038】(美能阿列3) 美能阿列3作用于人口与火山形地质带。喷发带——一个火山带，100~1000米厚的火山带。火山带——一个火山带，100~1000米厚的火山带。

1003112の出入口で、ヘリコプターを運んでいた。また、ヘリコプターの機体から、黒い液体が漏れ出していた。

【0036】次に、圓錐を形成した鉛筆削器の前面に20才より大口アーチの厚い金属性を施す。更に接着剤を形成させた木口アーチにて固定する。

據統計，100~110m的草叢中可以找到17種以上的昆蟲，而20~25m的草叢中則有23種以上的昆蟲。因此，100~110m分開築巢是比20~25m更合適的。

【0033】この本口头で形成問題を口一才トノル。

【0032】(美術別2) KJX40-11701421

单山乡马人寨村经济合作社

【0027】(2)本口令为741A形底座滑槽口-7-11817
(0027) 741A形底座滑槽口-7-11817
滑槽、50μm厚铝的冲压尺寸为118.17mm、能保
证厚度为2mm左右±0.15mm。第一层-8用11C3
L、1000℃-10分钟烧结在C₂H₂气氛中本口令

(和光純素花辦半寸)×97.7(11錢) 85.0g、「工貳」
「九八」(七步丈尺枝繁葉茂化比之)一株銀葉二斤重合併
銀葉制劑(每公克一錢) 85.0g、「工貳」
銀葉(每公克一錢) 85.0g、「工貳」
銀葉茶葉(每公克一錢) 85.0g、「工貳」

【案例分析】以下、具体的案例分析本案例要让群组成员明了。

據等消息上說，中國政府已經允許在中國的外國人可以自己組織他們自己的團體了。⑤

行办法、更加强制性地规定了对新药的审批和上市后的监管。这标志着中国医药行业进入了新的发展阶段。

行文中应将待译文本与原文对照，最好在原文和译文之间留出一定的空格。如果可能，可以在译文前加上译者姓名或译文日期。如果译文较长，可以考虑将其分为若干段落，每段落前面加上段落号或标题。

【0043】

【译明效果】本说明书中对于公算写过一小时，表面

易记本口译公算写过一小时，编写组又设计了

的两个版本，一个为公算写过一小时，另一个为

公算写过一小时，编写组又设计了两个版本，

【0043】

【译明效果】本说明书中对于公算写过一小时，表面

易记本口译公算写过一小时，编写组又设计了

的两个版本，一个为公算写过一小时，另一个为

[0001] Detailed Description of the Invention
[0001] [Industrial Application] This invention about the hologram transfer sheet which can be used conveniently for the reproduction quality of a hologram in more detail, in the field of the cover of books and a magazine, an illustration, a gift, a novelty, negotiable securities, a credit card, an ID card, a public notice, a display, etc., it is related with the hologram transfer sheet which can manufacture easily the hologram transfer foil or the hologram seal used for the unexpected nature of the object for forgery prevention by the ornament cubic effect.
[0002] [Description of the Prior Art] Since a hologram is the image formation using interference and diffraction of light, although it has the feature which can form a three-dimensional stereoscopic picture on a flat surface, in the manufacture, it makes indispensable a special recording from an object by the irregular pattern in this hologram printing technique is created first, relief hologram which recorded the interference fringe equivalent to the wave front of the light embossing reproduction of the unevenness so much to a sheet-shaped hologram transfer.
[0003] Hologram printing technique is known as a method of producing a cheap hologram. The material with heating and a pressurizing press using this La Stampa is compressed. Subsequently, La Stampa is created from this original edition, and the process of carrying out material that carried out embossing, a thermal adhesives layer or an adhesive layer is provided, and it is produced commercially as hologram transfer foil or a hologram seal.
[0004] Usually, a metal deposition layer is provided, and further, in this hologram transfer material with heating and a pressurizing press using this La Stampa is compressed.
[0005] Excel in the embossing moldability by "La Stampa as the characteristic required of a hologram transfer material, and it is produced commercially as hologram transfer foil or a hologram seal.

DETAILED DESCRIPTION

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. *** shows the word which can not be translated.
3. In the drawings, any words are not translated.

JPO and INPI are not responsible for any damages caused by the use of this translation.

* NOTICES *

[0006] In order to satisfy the above-mentioned characteristic to the conventional hologram transfer material, there was a problem of being inferior to productivity, such as needing the special equipment whose ultraviolet rays exposure is possible, repeating or welding cooling by pressure at the time of the transfer material, the heat resist layer to the last adherend, "is mentioned.

[0007] For example, using thermoplastic resin sheets, such as polivinyl chloride, as a hologram transfer material for embossings is known. However, in order to create a bright hologram pressure immediately after heating pressure welding at the time of embossing.

[0008] In the case of a hologram image and there was also a problem of being inferior also to solvent resistance, since a hologram transfer material was thermoplastics, there is no heat deteriorated. Since a hologram transfer material was thermoplastics, there is no heat reproduction and to repeat many heating and cooling, there was a problem that La Stampa image according to this method. In order to cool welding a thermoplastic resin sheet and La Stampa by pressure, and for there to be a fault which needs a long time for a process of film is also proposed.

[0009] However, this sheet for hologram formation, it was intense with solid one of the surface and it was inferior to workability, or since it irradiated with ultraviolet rays where La Stampa and the sheet for hologram formation are welded by pressure, there was a problem that it was inferior to productivity to need the special device which combined the press device and the exposure device etc.

[0010] [Problem(s) to be Solved by the Invention] There is the issue which this invention tends to solve in providing the hologram transfer sheet which accompanies many problems, and embossing can be done simple, and can perform transfer foil or seal.

[0011] [Means for Solving the Problem] This invention is obtained as a result of examining many things in view of a situation above.

[0012] Namely, in a hologram transfer sheet which carries out duplicate transfer of the relief compound in which a hologram formation resin layer provided in one side of a base film can invention may solve an aforementioned problem, Polyfunctional vinyl or a vinylidene hologram picture on a base film in surface relief hologram La Stampa in order that this compound transfer sheet comprising a resin composition containing a photopolymerization form a photopolymerization object by addition condensation of at least one (1), (2) provide a hologram transfer sheet comprising a resin composition containing a photopolymerization layer at the time of the transfer to the last adherend, "is mentioned.

[0014] As polyfunctional vinyl which can form a photopolymerization object by at least one addition condensation used by this invention, or a vinylidene compound. For example, styrene, chlorostyrene, alpha-methylstyrene, divinylbenzene; as a substituent, methyl, ethyl, propyl, butyl, amyl, 2-ethylhexyl, Octyl, nonyl, dodecyl, hexadecyl, octadecyl, cyclohexyl, Benzyl, methoxyethyl, and butoxyethyl, phenoxylethyl, Al Li, Metallyl, glycidyl, Z-hydroxyethyl, -Z-hydroxypropyl, Acrylate which has a basis like 3-chloro-Z-hydroxypropyl, dimethylaminooethyl, and a diethylaminoethyl, Methacrylate or fumarate, Ethylene glycol, a polyethylene glycol, Propylene glycol, a polypropylene glycol, a 1,3-butylene glycol, Tetramethylene glycol, Hexamethylene glycol, neopentyl glycol, Poly (meta) acrylate or Poly (meta) acrylate, such as trimethylolpropane, glycerin, and pentenerythritol; Vinyl acetate, butanoic acid vinyl or benzoic acid vinyl, acryliconitrile, Sept lles vinyl ether, Limonene, a cyclohexene, diallyl phthalate, 2-, 3-, 4-vinylpyridine, acrylic acid, methacrylic acid, acrylamide, methacrylamide, N-

hydromethylacrylamide or N-hydroxyethyl methacrylamide, and those alkyl ether compounds; Ethyleneoxide or propylene oxide of 3 mol or more is added to 1 mol of trimethylolpropane. Obtained JI or Ton (meta) acrylate of triol; Ethyleneoxide or propylene oxide of 2 mol or more is added to 1 mol of neopentyl glycol. JI of obtained diol. (Meta) Acrylate; DI, Mono- [of a (hydroxyethyl)-diacyclopenetadiene], (meta-) acrylate or di(hydroxyethyl)-isocyanuric acid. (Meta) Acrylate; Tris-. Poly of (hydroxyethyl)-phosphoric acid, with 1 mol of acrylate, a phenylliscyanate, or 1 mol of n-butylliscyanates; Poly of tris-

Acrylate; 2-hydroxyethyl. (Meta) Poly (meta) acrylate of resultant, dipentenerythritol which it is organic plasticity may obtain good embossing nature, but especially a vinyl system polymer material is preferred.

[0015] Organic polymer combination used by this invention is required in order that it is polyolefine denaturation neopenetyl. Glycol diacrylate etc. can be mentioned. -- hydroxy pivalate ester neopenetyl-glycol-diacrylate; -- straight chain aliphatic series diacrylate, -- (meth)acrylate; -- pivalate ester neopenetyl-glycol-diacrylate; -- caprolactone denaturation (Metacrylic acid; DI, Mono- [of a (hydroxyethyl)-diacyclopenetadiene], (meta-) acrylate or di(hydroxyethyl)-isocyanuric acid. (Meta) Acrylate; Tris-. Poly of (hydroxyethyl)-phosphoric acid, with 1 mol of acrylate, a phenylliscyanate, or 1 mol of n-butylliscyanates; Poly of tris-

Acrylate; 2-hydroxyethyl. (Meta) Poly (meta) acrylate of resultant, dipentenerythritol which it is thermoplasticity may obtain good embossing nature, but especially a vinyl system polymer material is preferred.

[0016] As a vinyl system polymeric material, for example Polyvinyl chloride, polyacrylic acid, methyl methacrylate, polyvinyl ether, polyvinyl acetals, these copolymer, etc. are mentioned, it is not limited to these.

initiator activated by an organic polymer binding material and (3) active light.

and organic polymer combination, generally the range of 5:95-60:40 is preferred at a weight ratio.

[0018] As a photopolymerization initiator activated by active light, For example, 2-hydroxy-2-methyl-1-phenylpropan-1-one ("DAROKYUA 116" by Merck Co.), Benzyl dimethyl ketal ("IRGACURE 651" by Ciba-Geigy), 1-(4-isopropylphenyl)-2-hydroxy-isobutane 1-one ketone ("IRGACURE 184" by Ciba-Geigy), 1-(4-isopropylphenyl)-2-hydroxy-isobutane 1-one ("DAROKYUA 1173" by Merck Co.), 1-hydroxycyclohexylphenyl ketone ("IRGACURE 1116" by Merck Co.), Benzyl dimethyl ketal ("IRGACURE 907" by Ciba-Geigy), A mixture of 2,4-diethylthio xanthone (the "kaya cure DETX" by Nippon Kayaku Co., Ltd.), and p-dimethylamino ethyl benzoate ("kaya cure EPA" by Nippon Kayaku Co., Ltd.), A mixture of an isopropyl thioxan ton (made by word KINSOTSU PU "KANTA cure ITX"), and p-dimethylamino ethyl benzoate, acyl phosphine oxide ("RUSHIRINLR8728" by BASF A.G.).

[0019] A using rate of a polymerization initiator has 0.5 to 7.0% of the weight of the preferred etc. is mentioned.)

[0020] In a hologram formation resin layer of this invention, thermal polymerization inhibitor can be added if needed.

[0021] As the main polymerization inhibitor, for example p-methoxy phenol, hydroquinone, Although alkyl or aryl substitution hydroquinone, tertiary-butylicatechol, pyrogallol, naphthyl, mentioned hologram formation resin layer differs by whether it uses as hologram transfer foil, or it uses as a hologram seal, their range of 1-40 micrometers is usually preferred.

[0022] A hologram transfer sheet of this invention is producible by applying the above-mentioned to these.

[0023] In order to perform hologram printing using a hologram transfer sheet of this invention, a hologram formation resin layer on a sheet and La Stampa are piled up first, and press working of sheet metal is performed. A pressing machine of a flat tip can also be used for press laminator. Subsequently, it can be considered as hologram transfer foil or a hologram seal by performing metal deposition processing on this hologram formation resin layer, and also providing a thermal adhesive layer or an adhesive layer.

[0024] The hologram transfer sheet of this invention can make unnecessary severe press conditions which cause degradation of "La Stampa, and can perform embossing simple." After embossing, even if it removes La Stampa, hold a bright hologram transfer picture. "Heat irradiating with ultraviolet rays to a transfer picture, " Detachability from a base film of a resistance and solvent resistance can be given, without spoiling a luminosity of a hologram by heat.

[0025] Hereafter, a concrete example is given and this invention is explained still in detail.
[0026] (Example 1) Penterythritol tetraacrylate 30.0 g, Trimethylolpropane triacrylate 30.0 g
and "methyl methacrylate; polymer" (Wako Pure Chem polymethacrylic acid) 85.0 g, "S lek
A" (Sekisui, Inc. salt manufacturer-ized vinyl-vinyl acetate copolymer resin) 8.0 g was dissolved
in 440.0 g of methyl ethyl ketone, 3.0 g of MITHIRAZU ketone was added as a polymerization
initiator, and the coating solution used for a hologram formation resin layer was prepared.
[0027] On the 50-micrometer polyester film of thickness, this hologram formation resin layer
coating solution was applied using the bar coating machine so that dry film thickness be
set to 2 micrometers, and the hologram transfer sheet which it is made to dry for 10 minutes at
100 °C, and does not have surface adhesiveness was produced.
[0028] The hologram formation side of La Stampa was laid on top of the hologram formation
resin layer on a sheet, and the laminator performed embossing. Embossings are the roll
temperature of 70 °C, and roll pressure power 2.0 kg/cm, bearing rate it was able to carry out
on condition of for 0.2-m, and, as a result, the bright hologram was able to form the image in
the hologram formation resin layer.
[0029] With subsequently, the metal halide lamp which has an output of 80 W/cm in a hologram
transfer sheet after removing La Stampa it irradiated with the ultraviolet rays of 800 mJ/cm².
Gave the vacuum plating of aluminum to a thickness of 500 Å, and also the thermal adhesives
(0030) Subsequently, it is abbreviation to this resin layer side in which the picture was formed.
was held.
[0031] Subsequently, this transfer foil After carrying out hot press to the art paper of 157 g/m²
layer was made to form, and hologram transfer foil was obtained.
[0032] (Example 2) Trimethylolpropane triacrylate 50 g and "methyl methacrylate; polymer" 75
g, "S lek A" 3 g was dissolved in 400.0 g of methyl ethyl ketone, "DAROKYUA 1173" 3.5 g was
added as a polymerization initiator, the p-methoxy phenol 0.1 g was added as polymerization
inhibitor, and the coating solution used for a hologram formation resin layer was prepared.
[0033] On the polyester film of thickness of 100 micrometers, this hologram formation resin
layer coating solution was applied using the bar coating machine so that dry film thickness
layer thickness is not given was obtained by exfoliating the polyester film which is a support film of a
hologram transfer sheet.

[Effect of the invention] The hologram transfer sheet of this invention does not have surface smeariness, and can copy a hologram easily by making it weld by pressure with La Stampa, and transfer foil or sealizing is also easy for it. Since the special device with which, as far as held and showed good solvent resistance and abrasion resistance.

[0042] As a result of doing the rubbing test by the methyl ethyl ketone into which gauze was infiltrated to a hologram formation resin layer, after 80 rubbing, the bright hologram image is held and showed good solvent resistance and abrasion resistance.

It can use for the use of Shioot of a book, etc. in sheet shape as it is.
[0041] This image recording finishing sheet holds the transparency of polyester film -- a specific angle -- color -- a skillful hologram image is made to appear
[0040] Subsequently, after removing La Stampa, the hologram transfer sheet in which the metal halide lamp which has an output of 80 W/cm.
reconstruction image was recorded was irradiated with the ultraviolet rays of 1 J/cm^2 with the

temperature of 64 **, and roll pressure power. 3.3 kg/cm, bearer rate it was able to carry out the hologram formation resin layer.

[0039] The hologram formation side of La Stampa was laid on top of the hologram formation resin layer on a sheet, and the laminator performed embossing. Embossings are the roll for 10 minutes at 100 **, and does not have surface adhesiveness was produced.

[0038] (Example 3) on the 100-micrometer polyester film of thickness, the hologram formation resin layer coating solution used in Example 1 is applied using bar coater so that dry film thickness may be set to 3 micrometers -- the hologram transfer sheet which it is made to dry

[0037] By sticking this hologram seal on clear glass, the transmission type bright hologram transfer object was obtained.

[0036] Subsequently, it is abbreviation to this resin layer in which the picture was formed. Gave golden vacuum evaporation to a thickness of 200 Å, and also the adhesive layer was made to form, and the hologram seal was obtained.

[0035] With subsequently, the metal halide lamp which has an output of 80W/cm in a hologram transfer sheet after removing La Stampa it irradiated with the ultraviolet rays of 700 mJ/cm^2 .
[0034] With subsequently, the metal halide lamp which has an output of 80W/cm in a hologram transfer sheet which it is made to dry for 10 minutes at 100 **, and does not have surface adhesiveness was produced.

[0033] The hologram formation side of La Stampa was laid on top of the hologram formation resin layer on a sheet, and the laminator performed embossing. Embossings are the roll for 10 minutes at 100 **, and does not have surface adhesiveness was produced.

[0032] By sticking this hologram seal on clear glass, the transmission type bright hologram transfer object was obtained.

[Translation done.]

hologram transfer sheet of this invention, the press device and the exposure device were together put since it irradiated with ultraviolet rays in the state where it dissociated from La Stampa after welding by pressure with La Stampa is not needed, it excels in productivity and the manufacturing cost of a hologram can be held down low.